

## ABSTRACT OF THE DISCLOSURE

## LOAD CONTROL SCHEME AND PROCESS WITH POWER CONTROL

The invention discloses a control scheme for wireless communications networks, including stations communicating with mobiles in downlink mode. The network includes an elementary load calculator designed to compute the load induced by a given mobile on a server station. The elementary load calculator includes:

- a first function (PA1) designed to compute a first elementary quantity taking into account the attenuation between the mobile and each nearby station ( $L_{v,m_i}$ ) and the limit on the total power emitted by each nearby station,

- a second function (PA2) designed to compute a second elementary quantity taking into account the requirements of the mobile vis-a-vis its station ( $\xi_{mu}$ ) and the attenuation between the mobile and its station ( $L_{u,m_u}$ ),

the elementary load calculator being capable of computing the product of the first elementary quantity by the second elementary quantity, which gives an elementary product representing the load induced by the mobile ( $EDPAP_{mu}$ ).

(Figure 2b)